

Thermosel™

...for elevated temperature testing of hot melts, asphalt, wax, polymers & more

The Brookfield Thermosel provides a stable, precisely controlled sample environment. This, together with the inherent accuracy of the Brookfield Viscometers, is fundamental to the Thermosel System, which produces viscosity measurements that are not only accurate but entirely reproducible.

Compatible with standard Brookfield Viscometers and DV-III Ultra Rheometers
Note: requires optional cable DVP-141

Provides control of sample temperature up to +300°C



Temperature Ramping between set points is possible if used with Rheocalc (DV-III Ultra & DV-II+Pro) Software
Note: Requires optional cable HT-106

Thermo Container (Heating Chamber)



Programmable Temperature Controller offers single set point or up to 10 programmable set points.



Extracting Tool enables the sample chamber to be handled easily and safely.



Alignment Bracket ensures concentricity of spindle and sample chamber.



Other components supplied include sample chamber holder, RTD probe, insulating cap, coupling link, coupling nut and choice of SC4 spindle.

BROOKFIELD TEMPERATURE CONTROL

United States: T: 800.628.8139 or 508.946.6200 F: 508.946.6262 www.brookfieldengineering.com
United Kingdom: T: 01279 451774 F: 01279 451775 www.brookfield.co.uk

What's Included?

Choice of one SC4 Spindle

Specify when ordering

Alignment Bracket

Thermo Container with safety guard and insulating cap

1 Removable Sample Chamber

5 Disposable Sample Chambers

Order additional chambers in quantities of 100, HT-2DB-100

Extracting Tools

Temperature Controller with an RTD probe

Optional



Option: Disposable Sample Chamber with optional Disposable Spindle SC4-27D is ideal for asphalts or any difficult-to-clean material.

Order disposable SC4-27D spindle in quantities of 100, Part No. SC4-27D-100.

Requires special chuck/closer, Part No. SC4-DSY, for attachment to viscometer.

Order disposable HT-2DB chambers in quantities of 100, Part No. HT-2DB-100.



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Thermosol Viscosity Ranges (mPa·s)

MODEL	Spindle SC4-18 Sample Volume 8 mL Shear Rate (sec ⁻¹) 1.32N	Spindle SC4-31 Sample Volume 10.0mL Shear Rate (sec ⁻¹) .34N	Spindle SC4-34 Sample Volume 9.5mL Shear Rate (sec ⁻¹) .28N	Spindle SC4-21 Sample Volume 8mL Shear Rate (sec ⁻¹) .93N	Spindle SC4-27 Sample Volume 10.5mL Shear Rate (sec ⁻¹) .34N
LV DV-IIIU	1.2-30K	12-300K	24-600K		
LV DV-II+Pro	1.5-30K	15-300K	30-600K	Not applicable for historical reasons.	
LV DV-I Prime	3-10K	30-100K	60-200K	However, it is possible to use the above	
LV DVE	3-10K	30-100K	60-200K		
LVT	5-10K	50-100K	100-200K		
RVDV-IIIU				20-500K	100-2.5M
RVDV-II+Pro				25-500K	125-2.5M
RVDV-I Prime				50-170K	250-830K
RVDVE	spindle/chamber			50-170K	250-830K
RVT	combinations with any of these instruments. Digital			50-100K	250-500K
HADV-IIIU	Viscometers/Rheometers			40-1M	200-5M
HADV-II+Pro	will automatically calculate			50-1M	250-5M
HADV-I Prime	viscosity. Please contact Brookfield or an authorized dealer if you require			100-300K	500-1.7M
HADVE	information on viscosity			100-300K	500-1.7M
HAT	range.			100-200K	500-1M
HBDV-IIIU				160-4M	800-20M
HBDV-II+Pro				200-4M	1K-20M
HBDV-I Prime				400-1.3M	2K-6.7M
HBDVE				400-1.3M	2K-6.7M
HBT				400-800K	2K-4M

MODEL	Spindle SC4-28 Sample Volume 11.5mL Shear Rate (sec ⁻¹) .28N	Spindle SC4-29 Sample Volume 13mL Shear Rate (sec ⁻¹) .23N	Spindle HT-DIN-81 Sample Volume 7mL Shear Rate (sec ⁻¹) 1.29N
LV DV-IIIU			1.0-10K
LV DV-II+Pro	Not applicable for historical reasons.		3.4-10K
LV DV-I Prime	See note above		3.4-10K
LV DVE			N/A
LVT			5.7-10K
RVDV-IIIU	200-5M	400-10M	14.6-10K
RVDV-II+Pro	250-5M	500-10M	36.5-10K
RVDV-I Prime	500-1.7M	1K-3.3M	36.5-10K
RVDVE	500-1.7M	1K-3.3M	N/A
RVT	500-1M	1K-2M	36.5-10K
HADV-IIIU	400-10M	800-20M	29.2-10K
HADV-II+Pro	500-10M	1K-20M	73.0-10K
HADV-I Prime	1K-3.3M	2K-6.7M	73.0-10K
HADVE	1K-3.3M	2K-6.7M	N/A
HAT	1K-2M	2K-4M	73.0-10K
HBDV-IIIU	1.6K-40M	3.2K-80M	116.8-10K
HBDV-II+Pro	2K-40M	4K-80M	292.0-10K
HBDV-I Prime	4K-13.3M	8K-26.7M	292.0-10K
HBDVE	4K-13.3M	8K-26.7M	N/A
HBT	4K-8M	8K-16M	292.0-10K

M = 1 million K = 1 thousand N = RPM 1 Spindle SC4-18 1.32 x 10 (rpm) = 13.2 sec⁻¹ cP = Centipoise mPa·s = millipascal-seconds
*Optional disposable SC4-27D spindle is available in quantities of 100, Part No. SC4-27D-100. Requires special chuck/closer, Part No. SC4-DSY, for attachment to viscometer.
**The 81 spindle, Part No. HT-DIN-81, works in an HT-2 or HT-2DB chamber.

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